

1 What is claimed is:

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3 1. A driveway for magnetically levitated vehicles with at least one carrier and
4 a plurality of driveway modules (10) situated along a track and fixed to said
5 carrier, the modules comprising first functional surfaces (17, 18) in the form of at
6 least one laterally guiding surface and one gliding surface, and two functional
7 surfaces (19) in the form of stator core mounting surfaces,
8 wherein the first and second functional surfaces (17, 18, 19) are embodied on
9 oversized pieces of equipment (14, 15, 16) which are made of steel, are
10 connected in a fixed manner to the module (10), and are machined down in a
11 cutting manner to a predefined setpoint dimension (\underline{d} , $\underline{h1}$, $\underline{h2}$).

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13 2. The driveway as recited in Claim 1,
14 wherein the modules (10) and pieces of equipment (14, 15, 16) are made of steel
15 and are joined by welding.

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17 3. The driveway as recited in one of the Claims 1 or 2,
18 wherein the pieces of equipment (14) for the laterally guiding surfaces (17) are
19 composed of laterally guiding rails.

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21 4. The driveway as recited in one of the Claims 1 through 3,
22 wherein the pieces of equipment (15) for the gliding surfaces (18) are composed
23 of slide rails fixed to the top sides of the modules (10).

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25 5. The driveway as recited in one of the Claims 1 through 4,
26 wherein the slide rails (15) are made of stainless steel or weather-resistant steel.

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28 6. The driveway as recited in one of the Claims 1 through 5,
29 wherein the modules (10) have a plate-like configuration.

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31 7. The driveway as recited in one of the Claims 1 through 6,

1 wherein the pieces of equipment (16) for the mounting surfaces (19) are
2 composed of stator carriers fixed to the undersides of the modules (10).
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4 8. The driveway as recited in one of the Claims 1 through 7,
5 wherein the laterally guiding and/or gliding surfaces (17, 18) are bent in the
6 region of curves along space curves (2) predetermined by the track.
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8 9. The driveway as recited in one of the Claims 1 through 8,
9 wherein the modules (10k) are configured as jointly-carrying components.
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11 10. The driveway as recited in Claim 9,
12 wherein the carriers are made of concrete, and modules (10k) are fixed to the
13 carriers via casting.
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15 11. The driveway as recited in Claim 10,
16 wherein the modules (10j) are provided with concrete-casting openings (54) in
17 the region of cover plates (11).
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19 12. The driveway as recited in Claim 10 or 11,
20 wherein the modules (10k) are provided with shear connecting means (50, 51)
21 located underneath.
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23 13. The driveway as recited in Claim 9,
24 wherein the supports are made of steel, and the modules (10k) are fixed to the
25 carriers via screwing or welding.
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27 14. The driveway as recited in one of the Claims 1 through 8,
28 wherein the modules (10g through 10j) are configured as non-jointly-carrying
29 components.
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31 15. The driveway as recited in Claim 14,

1 wherein the carriers (33) are made of concrete, and the modules (10g) are
2 provided with integral bearing elements (30, 31, 32) on their undersides, the
3 bearing elements being bendable in the longitudinal and/or transverse direction
4 and being fixed to the carriers (33) via casting.

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6 16. The driveway as recited in Claim 15,
7 wherein the modules (10g) are provided with at least one bearing element (32)
8 intended for forming a fixed bearing.

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10 17. The driveway as recited in Claim 15 or 16,
11 wherein the bearing elements (36, 39, 43a, 43b, 49) are joined with the modules
12 (10h through 10j) in a detachable manner.

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14 18. The driveway as recited in one of the Claims 1 through 17,
15 wherein the modules (10b, 10c) are twisted in an elastic manner in transition
16 regions from straight sections to curves and vice-versa to account for changes in
17 the lateral inclination, and they are fixed to the carriers (28) in the twisted state.

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19 19. A driveway module for magnetically levitated vehicles with functional
20 surfaces (17, 18, 19) in the form of at least one laterally guiding surface, one
21 gliding surface, and one stator core mounting surface,
22 wherein all functional surfaces (17, 18, 19) are embodied on oversized pieces of
23 equipment (14, 15, 16) which are made of steel, are connected in a fixed manner
24 to said module, and are machined down in a cutting manner to a predefined
25 setpoint dimension (\underline{d} , $\underline{h1}$, $\underline{h2}$).

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27 20. The driveway module as recited in Claim 18,
28 wherein it is also configured as recited in one of the Claims 2 through 18.

29
30 21. The driveway module as recited in Claim 19 or 20,

wherein it is configured in an elastically twistable manner to produce changes in the lateral direction.

22. A method for producing a driveway module (10) as recited in one or more of the Claims 19 through 21, wherein the module (10) is produced with the tolerances typical for steel construction, and the pieces of equipment (14, 15, 16) are produced at least with an oversized dimension which is adequate for typical driveways, and wherein the pieces of equipment (14, 15, 16) are then provided—by machining them down in a cutting manner, and with the tolerances required by the driving properties—with functional surfaces (17, 18, 19) that are straight and/or bent in a manner predetermined by the track.

23. The method as recited in Claim 22, wherein the module (10) and pieces of equipment (14, 15, 16) are produced separately with the tolerances which are typical for steel construction, and are then joined via welding.

24. The method as recited in Claim 23, wherein the machining down in a cutting manner is not carried out until all of the welding work relevant for the positional accuracy of the functional surfaces is completed.

25. The method as recited in one of the Claims 22 through 24, wherein the machining down in a cutting manner is carried out via milling.

26. The method as recited in one of the Claims 22 through 25, wherein the modules (10b, 10c) are twisted in an elastic manner to produce changes in the lateral inclination, and are fixed to the supports (28) in the twisted state.